

HCA COPYRIGHT 2002 ACS

XP-002193176

AN 120:32829 HCA
TI Chlorine-resistant elastomeric polyurethane fibers
IN Chiba, Shuji; Arimatsu, Giichi; Shirasu, Koji; Ido, Yoshinori; Suzuki, Hajime
PA Toyo Boseki, Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM D01F006-94
ICS D01F001-10; D01F006-70
CC 40-10 (Textiles and Fibers)
FAN.CNT 1

	<u>PATENT NO.</u>	<u>KIND</u>	<u>DATE</u>	<u>APPLICATION NO.</u>	<u>DATE</u>
PI	JP 05195322	A2	19930803	JP 1992-27331	19920117
AB	Title fibers contain 0.1-20% (based on fibers) .gtoreq.1 compds. with reactivity with Cl (measured by using NaOCl, AcOH, starch, KI, Na2S2O3, and solvents) .gtoreq.50 mequiv/g. Thus, treating poly(tetramethylene ether) glycol with MDI at 1:2 (mol) ratio in DMF gave a prepolymer soln., which was treated with 1,2-propylenediamine to give a polyurethane soln. The soln. was blended with 3% (based on the polyurethane) 4,4'-dihydroxybiphenyl and other additives, spun, twisted, false twisted, oiled, wound, scoured, relaxed, dried, heat-set, dyed, fixed, drawn, dried, and set to give an elastomeric fiber showing stress retention 91.1% after 6-h immersing in a soln. contg. effective Cl content 30 ppm at 30.degree. and pH 7.0.				
ST	chlorine resistance polyurethane elastomeric fiber; hydroxybiphenyl blend polyurethane fiber elastomeric				
IT	Spandex fibers				
	RL: USES (Uses)				
	(contg. hydroxy-contg. arom. compds., with good chlorine resistance)				
IT	111634-02-7P				
	RL: IMF (Industrial manufacture); PREP (Preparation)				
	(fiber, prepn. of, contg. hydroxy-contg. arom. compds., with good chlorine resistance)				
IT	80-05-7, Bisphenol A, uses 80-09-1, 4,4'-Dihydroxydiphenyl sulfone				
	92-88-6, 4,4'-Dihydroxybiphenyl 27100-33-0, Bisphenol A homopolymer				
	143406-81-9				
	RL: USES (Uses)				
	(polyurethane elastomeric fibers contg., for good chlorine resistance)				